Recycler Tune Control Application (PA4208, R2) - Bug #8543

Chromes: 'Send' is bad without 'Calc'

04/30/2015 02:13 PM - Michael Wren

Status:	Closed	**Start date:**	04/30/2015
Priority:	Low	**Due date:**	
Assignee:	Kyle Hazelwood	**% Done:**	0%
Category:		**Estimated time:**	3.00 hours
Target version:	1.1	**Spent time:**	3.00 hours

Description

In the Chromes section, if one clicks 'Send' without first clicking 'Calc' R2 has the potential to send out uninitialized values to the trims. The 'Calc+Send' function could replace the 'Send' button.

Alternatively, R2 could automatically re-calculate every time a new chrome is entered and just keep the 'Send' button (after calculating in the background).

History

#1 - 05/05/2015 04:09 PM - Kyle Hazelwood

- Status changed from New to Assigned

- Assignee set to Kyle Hazelwood

- Priority changed from Normal to Low

- Estimated time set to 3.00 h

Remove buttons for "CALC" and "CALC+SEND" in chro.cpp lines 277-278

```
sts = window_menu_bar_create_c(wid,
 " FILE   \\ SAVE \\ CALC \\ SEND \\ CALC+SEND \\ UNDO \\ MISC ",0, 1,WHITE);
```

Delete lines 375-382 in chro.cpp that is used to detect a "CALC" button interupt

```
else if (inbar == 3) {    /* calc ch.h -> i.h and ch.v -> i.v */
    mod = FALSE;
    window_tvm_c(wid,R_CMD,C_MOD+1,"Modify i.h/v",12,mod?YELLOW:CYAN);
    memset_float_c(amps, 0., NUM_TIME_SLOTS * 2);
    sts = oc_calc(&q,amps);
    if (!sts) disp_i = TRUE;
}
```

Alter line 383 in chro.cpp now that the button indices have changed ("SEND" is now inbar=3). Remove the portion where it trys to detect an interupt on "CALC+SEND" (inbar=5)

```
else if (inbar == 4 || inbar == 5) {   /* send i.h to every ps in h circuit and i.v to every ps in v circuit *
/
```

Remove line 392 in chro.cpp where it sends without first calculating, this should never happen. Get rid of the else statement on line 392 in chro.cpp

```
if (inbar == 4) sts = oc_send(tb_id,&q,FALSE,amps);
else if (inbar == 5) sts = oc_send(tb_id,&q,TRUE,amps);
```

Edit line 396 in chro.cpp for new button index ("UNDO" is now index 4).

```
else if (inbar == 6) {/* undo all changes made to a file since it was brought up */
```

Edit line 405 in chro.cpp for new button index ("MISC" is now index 5).

```
else if (inbar == 7) {
```

#2 - 05/05/2015 04:15 PM - Kyle Hazelwood

Also, to add the auto calc functionality to any edit copy lines 379-381 from the "CALC" interupt detect to lines 552 and 571 where interrupts are detected on H chroms and V chroms. The oc_calc() routine does the calculation, toggling disp_i pushes the text to the window.

```
memset_float_c(amps, 0., NUM_TIME_SLOTS * 2);
sts = oc_calc(&q,amps);
if (!sts) disp_i = TRUE;
```

#3 - 05/05/2015 04:17 PM - Kyle Hazelwood

- Target version set to 1.1

#4 - 05/07/2015 11:04 AM - Kyle Hazelwood

This had the side effect of creating a bug with the highlightling. This was fixed and a new release is out*.*

#5 - 05/07/2015 11:04 AM - Kyle Hazelwood

- Status changed from Assigned to Closed